

FILE 'MEDLINE, EMBASE, BIOSIS' ENTERED AT 13:02:21 ON 28 MAY 2004  
L1 952429 S "AMINO ACID"  
L2 774055 S INDUCER OR INDUCTION  
L3 295936 S PROMOTER  
L4 5356 S L1 (S) L2  
L5 544 S L4 (P) L3  
L6 3249 S L5 AND "EXPRESSION CONTROL" OR "INDUCIBLE PROMOTER"  
L7 16 S L5 (P) "INDUCIBLE PROMOTER"  
L8 14 DUP REM L7 (2 DUPLICATES REMOVED)  
L9 33 S L6 AND "TARGET GENE"  
L10 14 DUP REM L9 (19 DUPLICATES REMOVED)

ACCESSION NUMBER: 2001020646 EMBASE  
TITLE: The gdhB gene of Pseudomonas aeruginosa encodes an arginine-inducible NAD(+)-dependent glutamate dehydrogenase which is subject to allosteric regulation.  
AUTHOR: Lu C.-D.; Abdelal A.T.  
CORPORATE SOURCE: A.T. Abdelal, College of Arts and Sciences, Georgia State University, P. O. Box 4038, Atlanta, GA 30302-4038, United States. aabdelal@gsu.edu  
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SUMMARY LANGUAGE: English

AB The NAD(+)-dependent glutamate dehydrogenase (NAD-GDH) from Pseudomonas aeruginosa PAO1 was purified, and its amino-terminal **amino acid** sequence was determined. This sequence information was used in identifying and cloning the encoding gdhB gene and its flanking regions. The molecular mass predicted from the derived sequence for the encoded NAD-GDH was 182.6 kDa, in close agreement with that determined from sodium dodecyl sulfate-polyacrylamide gel electrophoresis of the purified enzyme (180 kDa). Cross-linking studies established that the native NAD-GDH is a tetramer of equal subunits. Comparison of the derived **amino acid** sequence of NAD-GDH from P. aeruginosa with the GenBank database showed the highest homology with hypothetical